1. COMPONENT MARINE CORPS

FY 19 89 MILITARY CONSTRUCTION PROJECT DATA

2. DATE 20 Oct 86

3. INSTALLATION AND LOCATION MARINE CCRPS BASE

CAMP LEJEUNE, NORTH CAROLINA 28542

4 PROJECT TITLE

UPGRADE EXTERIOR LIGHTING, MAINSIDE

5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER

VARIOUS

8. PROJECT COST (\$000)

LE951R 69.6

9. COST ESTIMATI	ES
------------------	----

U/M	QUANTITY	COST	(\$000)
EA	1,729	34.53	59.7
LS		-	6.0
LS		-	65.7
LS		_	3.9
LS		-	0.0
LS	-		69.6
Barr 100			
	LS LS LS	LS - LS - LS -	EA 1,729 34.53 LS LS LS

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Replace incandescent exterior lighting fixtures and bulbs on identified industrial facilities with energy efficient fluorescent fixtures and bulbs. See enclosure (1).

11. REQUIREMENT:

PROJECT: Replace existing 100 to 200 watt incandescent exterior lighting fixtures and bulbs in the mainside, military industrial facilities of Marine Corps Base, Camp Lejeune with 9 to 14 watt PL type fluorescent fixtures and bulbs. Fixture frame to be made of marine grade aluminum with a polycarbonate prismatic diffuser to prevent corrosion. The lens to be fully gasketed and U. L. listed for wet locations. These fluorescent, single and double PL-type fixtures to be similar in appearance for all types of mounting and efficiently start-up and operate to Ø degrees farenheit. No damage is to be sustained by the building's structures. Site preparation and post construction clean-up to be included. REQUIREMENT: To reduce electric consumption and demand basewide by reducing the wattage required for exterior lighting while retaining the necessary lighting levels. This will help to reduce base energy consumption to 12% below FY-85 base-

DD1 DEC 76 1391

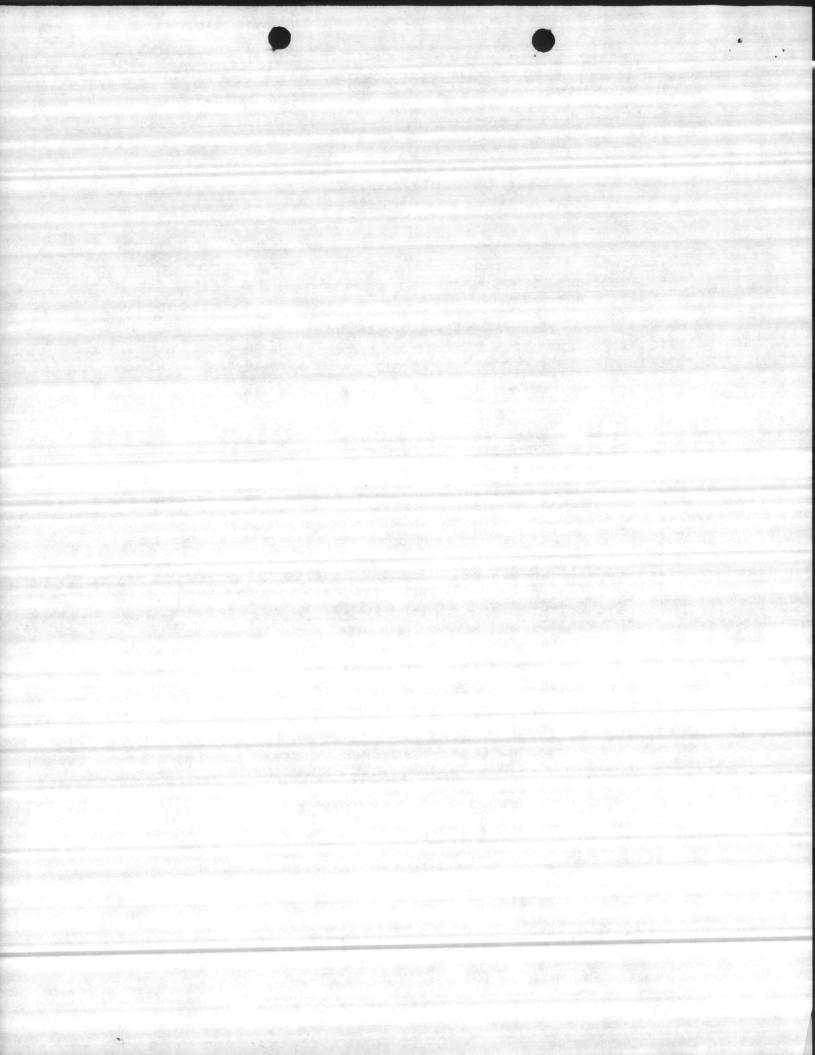
line by 1995.

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO.1 of 3

± U.S. GOVERNMENT PRINTING OFFICE: 1979-603-076/3959 2-1

S/N 0102-LF-001-3910



COMPONENT

MARINE CORPS

FY 19 89 MILITARY CONSTRUCTION PROJECT DATA

20 Oct 86

2. DATE

3 INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

5. PROJECT NUMBER

UPGRADE EXTERIOR LIGHTING, MAINSIDE

LE951R

CURRENT SITUATION: The existing incandescent fixtures are maintained by the occupant. 100 to 200 watt bulbs are installed in these fixtures. These standing lights are normally used from 2000 to 0600 hours, seven days a week for security purposes.

IMPACT IF NOT PROVIDED: Continued energy waste due to the utilization of low efficiency. Incandescent exterior lighting on industrial facilities. Approximately 2,500 MBTU's of energy will be lost each year.

ENERGY SAVINGS/YEAR

9-Watt fluorescent bulb versus 125-Watt incandescent bulb.

116 Watt/fixtures x 1,729 fixtures = 200,564 Watts.

Total = 200,564/1,000 = 200.56 KW

200.56 KW x 10 hours/day x 365 days/yr = 732,044.5 KWH/yr

 $732,044 \text{ KWH}/1,000 \times 3.413 \text{ MBTU/MWH} = 2,498.45 \text{ MBTU/yr}.$

NON-ENERGY SAVINGS - ANNUAL RECURRING

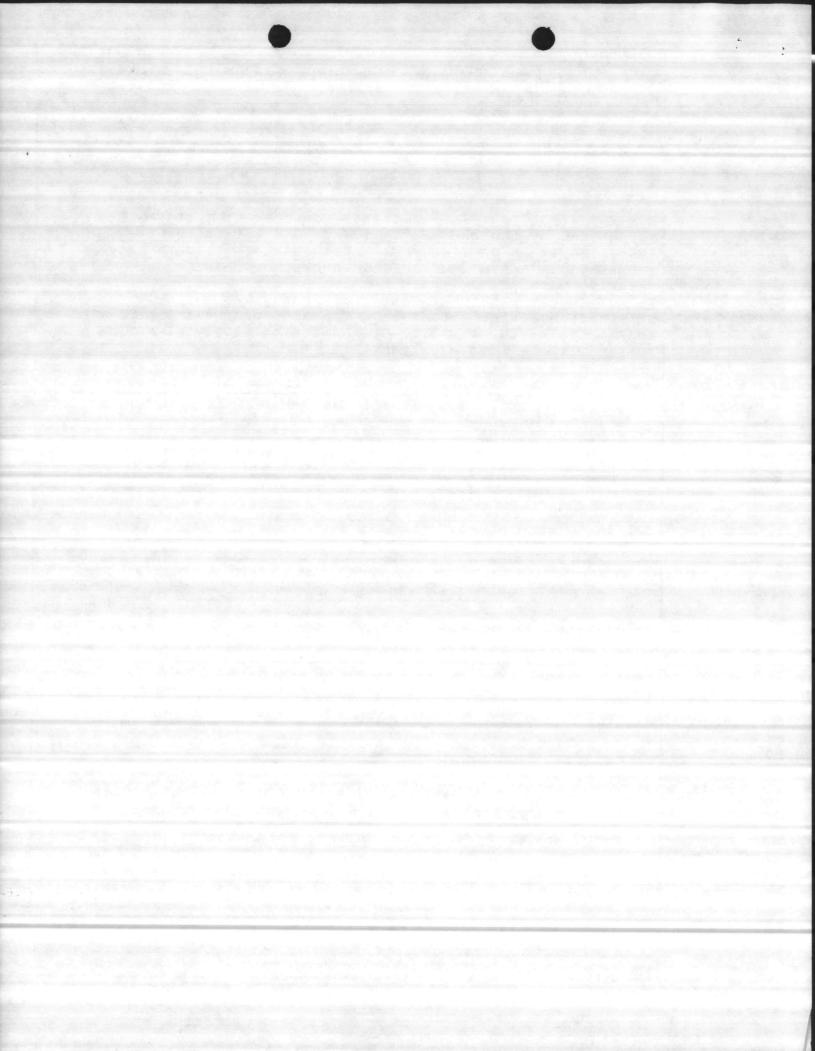
(Electrical Demand Savings)

- 1. The yearly savings is based on the "shaving" of the monthly peak demand.
- 2. Exterior lighting is used from 2000 hours to 0600 hours.

3. WINTER:

- a. Exterior lighting is used during winter peak hours (2000 to 2100 hours).
 - b. Peak demand charges during winter months is \$10.62/KW.

200.56 KW x \$10.62/KW x 6 months = \$12,779.70/Winter.



MARINE CORPS FY 19 89 MILITARY CONSTRUCTION PROJECT DATA

2. DATE 20 Oct. 86

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NOFTH CAROLINA 28542

4. PROJECT TITLE

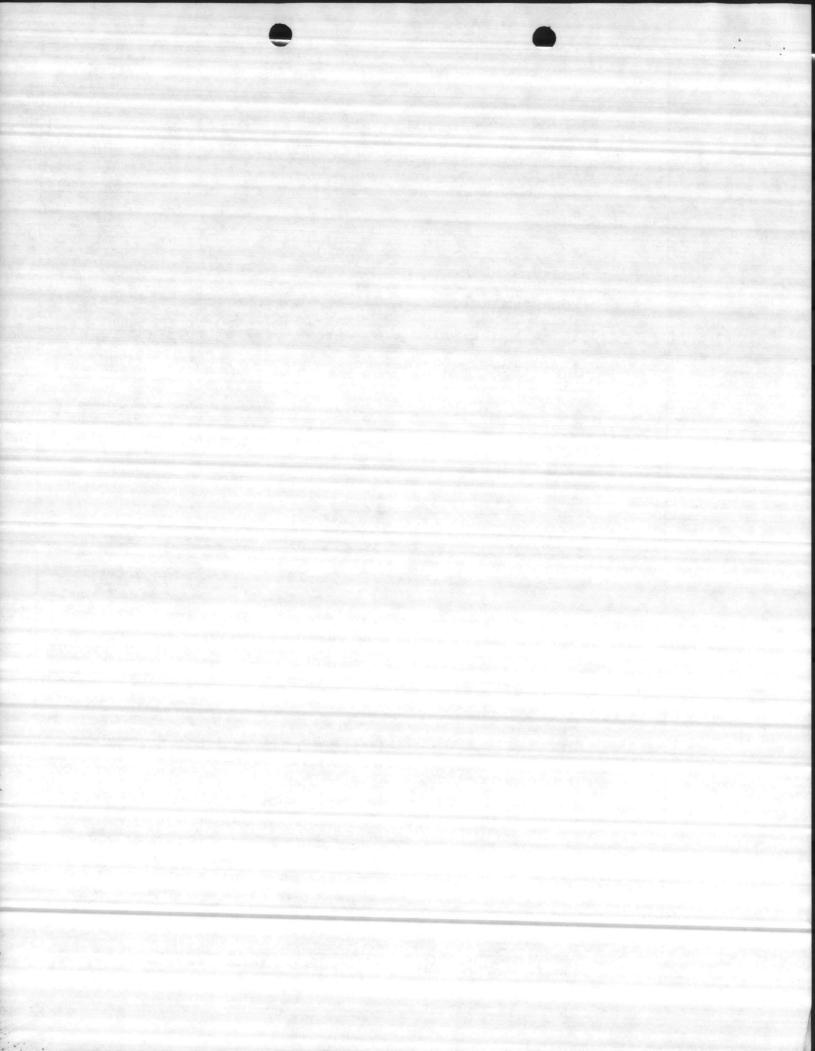
UPGRADE EXTERIOR LIGHTING, MAINTSIDE

5. PROJECT NUMBER

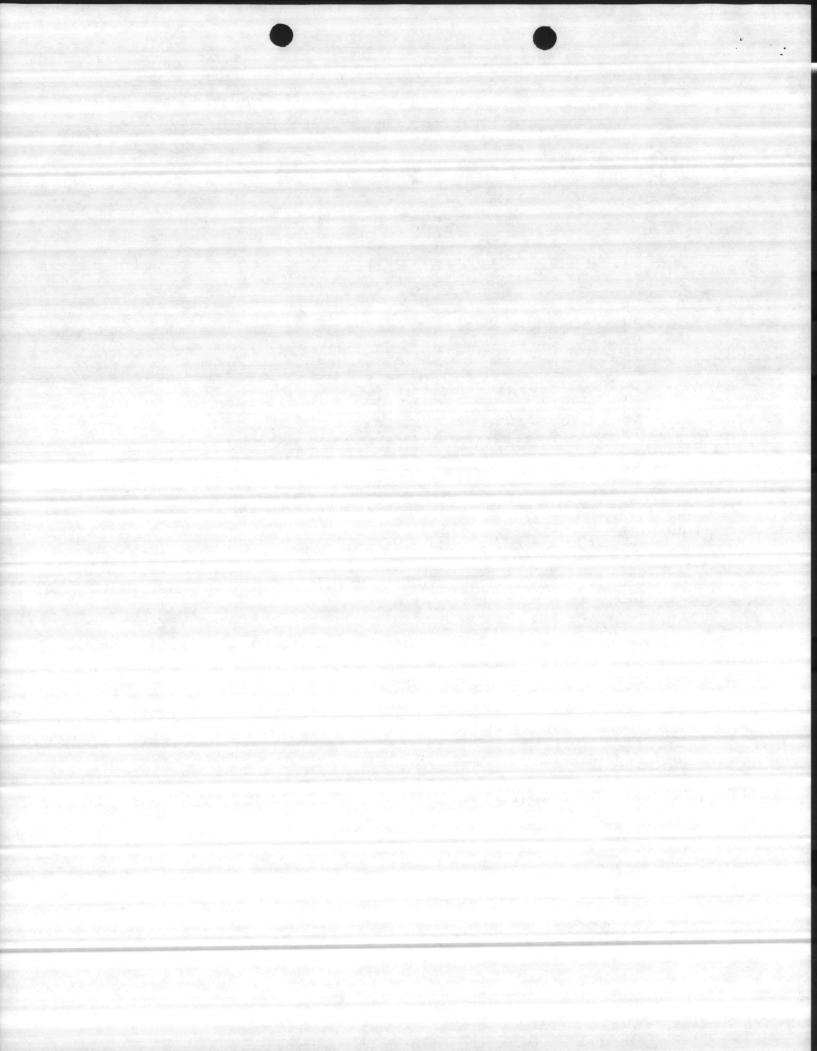
LE951R

4. SUMMER:

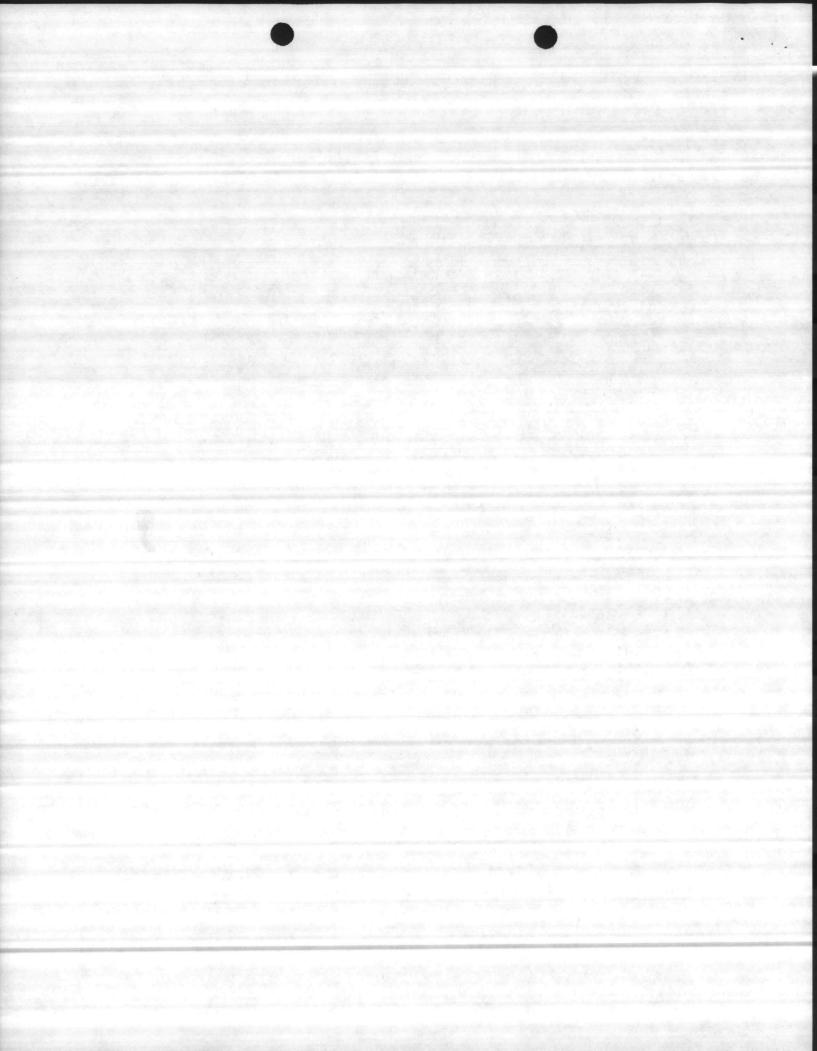
- a. Exterior lighting is used during summer peak hours, (2000 to 2200 hours).
 - b. Peak demand charges during summer months is \$14,81/KW.
 200.56 KW x \$14.81/KW x 6 months = \$17,821.74/Summer.
- 5. Total Savings = \$30,601.44/year.



BUILDING NO.	WALL FIXTURES	CEILING FIXTURES
3B	2	0
6	1	7
7	4	0
8	<u>1</u>	7
9		7
10		de la companya de la
12 13	Ô	2
25A	2	0
26	3 2	0
27	2	0
36	2	0 5
37	0	1
43 50	0	2
54	1 - 1 - 1 - 1	16
61	4	0
62	3	0
63	4	2 2
65	1	4
66 67	i	2
HP 51	54	0
HP 53	54	0
HP 55	54	0
HP 57	54	4
101	9	8
102 106	9	3
107	9	3
118	9	4
HP 105	76	0
HP 106	2	0
HP 107 HP 115	76	0
HP 115 HP 125	76	0
HP 127	1	0
HP 135	76	0
HP 140	1	0
HP 145	76 1	Ō
HP 146 HP 155	76	0
HP 165	76	0
HP 170	1	. 0
HP 175	76	0
HP 185	76 76	0
HP 195	9	4
205 206	11	
213	9	4
214	0	1 + 1 Recessed
216	0	1 + 1 Recessed
217	9	4
222	4	0
234 251	1	1
23.		Fnc1 (1)



₽	210	• 1	
IP	267	1)
	332	4	0
	400	0	1
	401	7	0
	403	3	3
	407	1	4
	408		0
	411	11	0
	414	1	0
	417		4
	420	0	8
	422	The state of the s	4
	423		1
	424	11	0
	425	5	1
	431	0	1
	432		0
	460	2	0
	500		0
	512	3	0
	518	4	0
	520	1	1
	524	8	0
	531	4	0
	532	- xel = 이 집 경험하다.(1.12) [20] - 1 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시 시	0
	550	0	2
	561		0
HP	550	86 -	0
HP	551	1	
HP	560	86	0
HP	561	1	0
	656	1	0
	690	2 2	0
	746	2	0
	1003	0	5
	1010		0
	1100	1	3
	1101	14	0300
	1106	1	
	1140	60	0
	1208	3	0
	1340	60	C
	1400	4	U
	S1516	4 2 2	
	S1517	2	
	1601	4	-
	1614	0	4
	1615		1
	1700	3	(
	1771	17	(
	1780	29	(
	1820	2	(



PREPARED BY P. Engla

FY-89

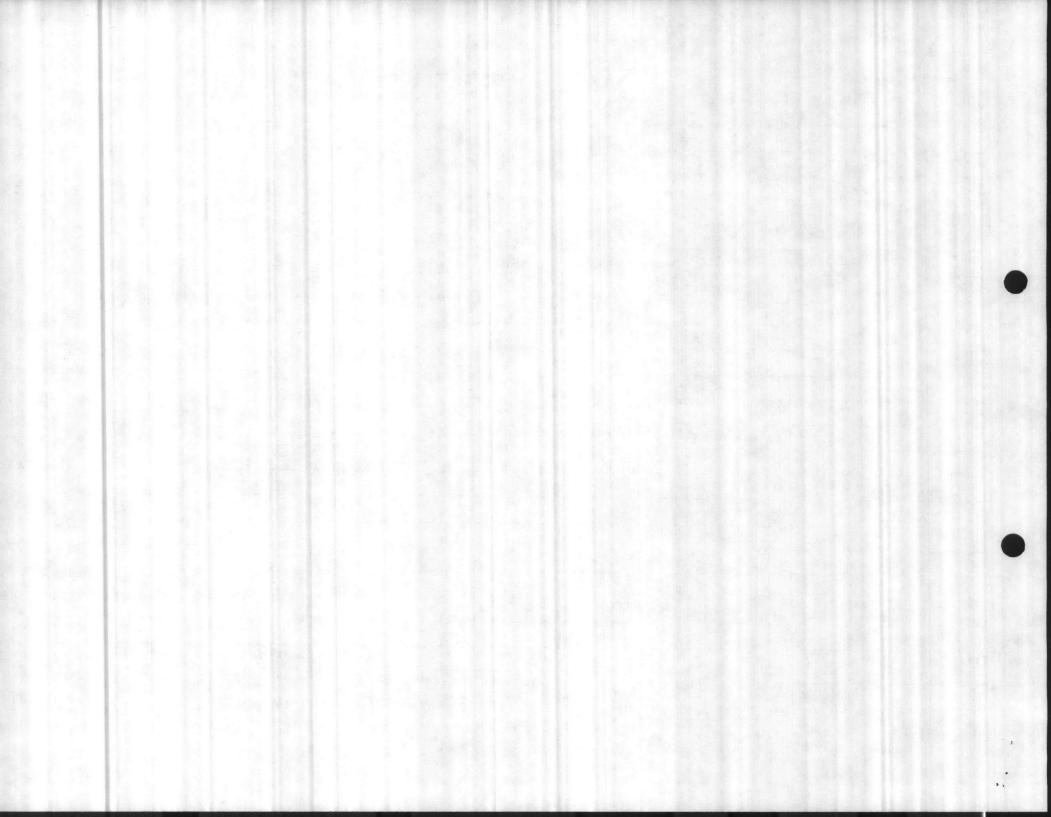
LANTDIV NORVA 4-11012/5 (REV. 12/80) ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND

Const. Contr. No. LE951R

NORFOLK, VIRGINIA

DATE 20 Oct 86

								1
2	LOCAT	ION CA	MP LEJI	EUNE,	NEC		_	ELIM. M FINAL
QUANTITY	UNIT	MATE	TOTAL	UNIT	OR COST TOTAL		A SECTION AND ADDRESS OF THE PERSON AND ADDR	REMARKS
1580	EA	21.00	33,180	4.50	7.110	40,29	0	
149	EA	21.00	3,129	4.50	670.50	3,799.	50	
							_	
1729	EA	21.0	36,309	450	7,780.50			
·						6,613	3.43	
				187	1,400.79	1,400	0.49	
			1,633.91					
						53,737	.33	
	100					The state of the s		
						59,111	.06	
						591	11	
						59,702	.17	
						5,970	.22	
						3,940.	34	
						69,612	.73	
	P 25							
	1580	QUANTITY UNIT 1580 EA 149 EA 1729 EA	QUANTITY UNIT MATEL UNIT 1580 EA 21.00	QUANTITY UNIT MATERIAL COST UNIT TOTAL 1580 EA 21.00 33,180 149 EA 21.00 3,129	QUANTITY UNIT MATERIAL COST UNIT 197AL UNIT	QUANTITY UNIT MATERIAL COST LABOR CUST 1580 EA 21.00 33,180 4.50 7.110	QUANTITY UNIT MATERIAL COST LABOR COST TOTAL COST (COST TOTAL COST TOTAL COST TOTAL COST (COST TOTAL COST TOTAL COST (COST TOTAL COST (COST TOTAL COST TOTAL COST (COST TOTAL COST (COST TOTAL COST TOTAL COST TOTAL COST (COST TOTAL COST TOTAL COST (COST TOTAL COST TOTAL COST (COST TOTAL COST TOTAL COST TOTAL COST TOTAL COST (COST TOTAL COST TOTAL COST TOTAL COST (COST TOTAL COST TOTAL COST TOTAL COST (COST TOTAL COST TOTAL COST TOTAL COST TOTAL COST TOTAL COST (COST TOTAL COST TOTAL CO	QUANTITY UNIT MATERIAL COST LABOR COST TOTAL COST 1580 EA 21.00 33,180 4.50 7.110 40,290



LIFE CYCLE COST ANALYSIS SUMMARY ENERGY CONSERVATION INVESTMENT PROGRAM (ECIP)

LOCATION: CAMP LETTULE, MC

REGION NO: 4

LE951R

PROJECT TITLE: UPGRADE EXTERIOR LIGHTING, MAINSIDE

FISCAL YEAR 89

DISCRETE PORTION NAME:

ANALYSIS DATE: 10/86

ECONOMIC LIFE 25 YEARS

1. INVESTMENT

	[2] [2] [2] [2] [2] [2] [2] [2] [2] [2]	1 00	(77 20
A.	CONSTRUCTION COST	\$ 65	,672.39
В.	SIOH	D	
J.	DESIGN COST		3,940.34
D.	ENERGY CREDIT CALC (1A+1B+1C)X.9	⇒ 62	2,651.46
i.	SALVAGE VALUE OF EXISTING EQUIPMENT	-5	-
F	TOTAL INVESTMENT (1D-LE)	\$ 62	2.651.46

2. ENERGY SAVINGS (+)/COST (-)

ANALYSIS DATE ANNUAL SAVINGS, UNIT COST & DISCOUNTED SAVINGS

FUEL	COST \$/MBTU(1)	SAVINGS MBTU/YR(2)	ANNUAL \$ SAVINGS(3)	DISCOUNT FACTOR(4)	DISCOUNTED SAVING(5)	
A. ELECT B. DIST C. RESID D. NG E. CO/DIST	\$14.75 \$ \$ \$ \$	2,498.45	\$ 36,852.14 \$ \$ \$ \$	15.23	\$561,258.09 \$ \$ \$ \$	
F. TOTAL		2,498.45	\$ 36,852.14		}	\$561,258.09

3. NON EMERGY SAVING (+)/COST (-)

A. ANNUAL RECURRING (+/-)

\$ 30,601.44

(1) DISCOUNT FACTOR (TABLE A) 11.65

\$356.506.78 (2) DISCOUNTED SAVING/COST (3A X 3AL)

B. NON RECURRING SAVING (+)/COST (-)

ITEM	SAVINGS(+) COST (-)(1)	YEAR OF OCCURRENCE(2)	DISCOUNT FACTOR(3)	INGS (+) COST (-)(4)	THE PART OF THE PER
1.	\$			5	
2.	\$			D	
3.	\$			2	
4. TOTAL	\$			\$	
T. IULL					

C. TOTAL NON ENERGY DISCOUNTED SAVINGS (+)/COST(-) (3A2+3B2.4) \$356,506.78

D. PROJECT NON ENERGY QUALIFICATION TEST

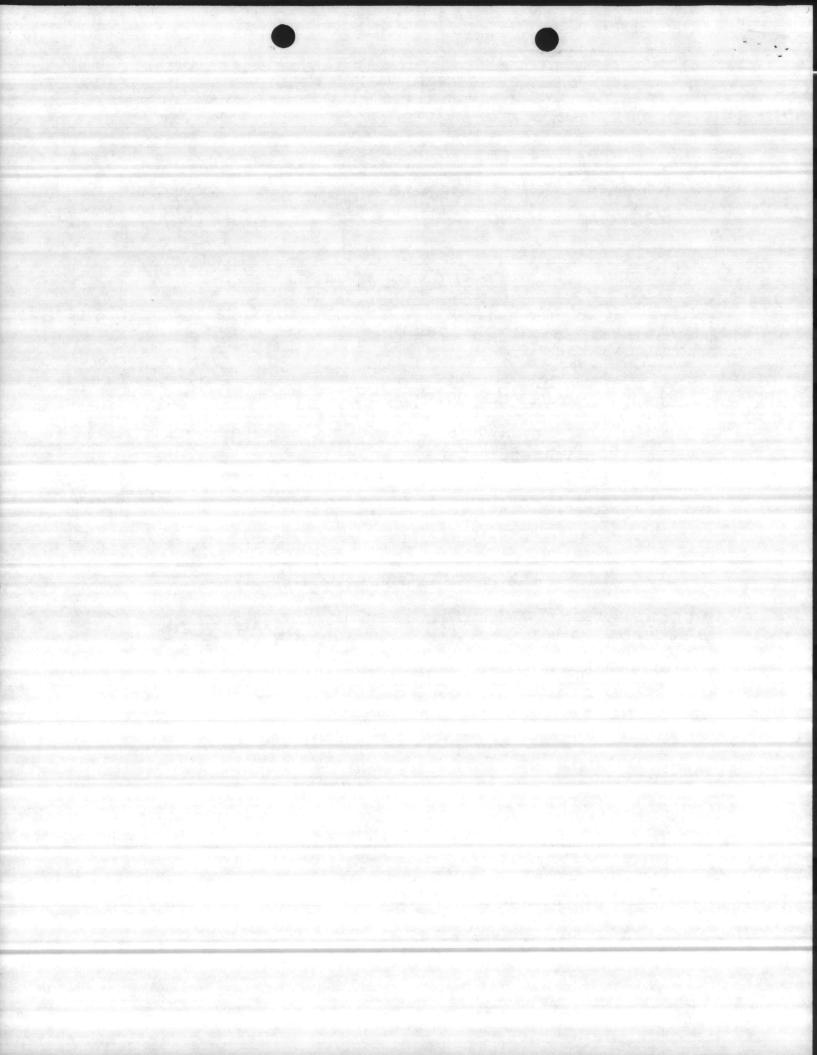
(1) 25% MAX NON ENERGY CAL (2F5 X .33) \$185,215.17

- 1. IF 3D1 IS = OR >3C GO TO ITEM 4
 2. IF 3D1 IS < 3C CALC SIR = (2F5+3D1)/1F= 11.91
- 3. IF 3D12 IS => 1 GO TO 1TEM 4
- 4. IF 3D12 is < 1 PROJECT DOES NOT QUALIFY

4. FIRST YEAR DOLLAR SAVINGS 2F3+3A+(3B12/fEARS ECONOMIC LIFE)

5. TOTAL NET DISCOUNTED SAVINGS (2F5+3C) 6. DISCOUNTED SAVINGS RATIO (IF < 1 PROJECT DOES NOT QUALIFY) (SIR)=(5/1F)=

7. E/C RATION (2F2/(1F/1000) = 39.88 IBTU/K\$ Encl (3)



1. COMPONENT MARINE CORPS FY	PS FY 19 89 MILITARY CONSTRUCTION PROJECT DATA				
3. INSTALLATION AND LOCATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542			4. PROJECT TITLE UPGRADE EXTERIOR LIGHTING, OUTLYING AREAS		
5. PROGRAM ELEMENT	6. CATEGORY CODE VARIOUS	7. PROJECT		8. PROJECT C	

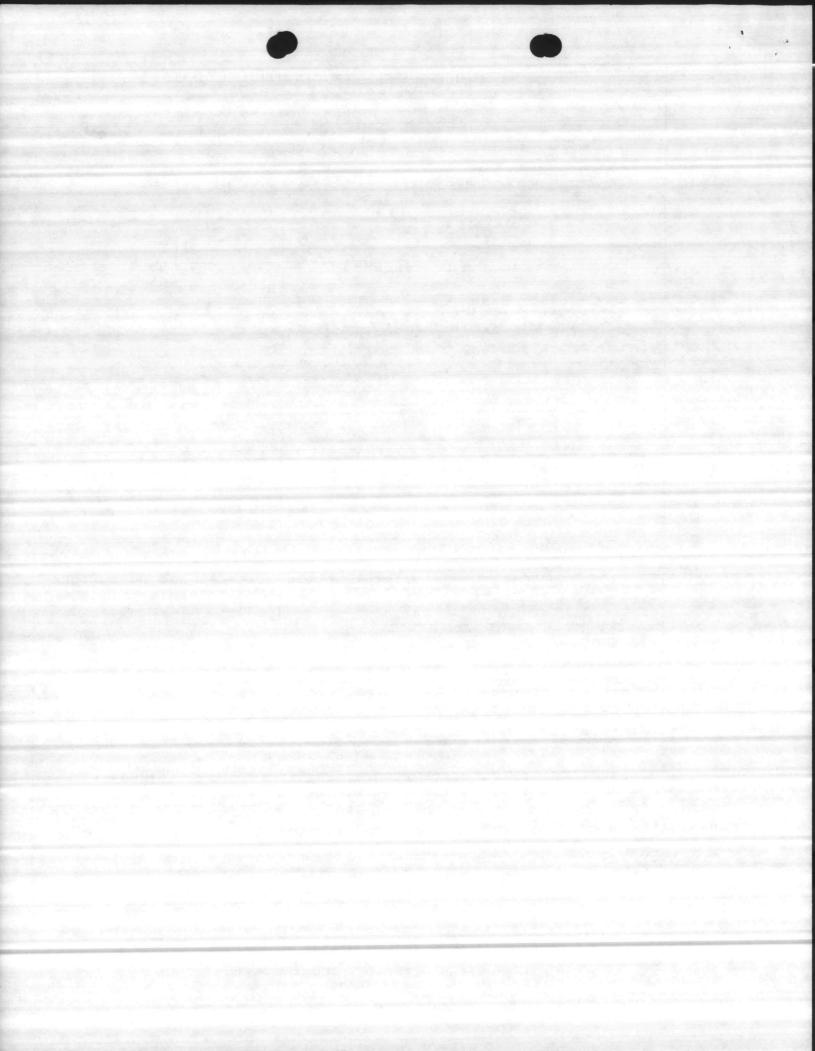
S			
U/M	QUANTITY	UNIT	COST (\$000)
EA	1,907	35.21	67.1
LS		## -	6.7
LS	_	-	73.8
LS		-	4.5
LS	-	-	0.0
LS	- · · · ·	-	78.3
	EA LS LS LS	U/M QUANTITY EA 1,907 LS - LS - LS - LS -	U/M QUANTITY UNIT COST EA 1,907 35.21 LS LS LS LS

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Replace incandescent exterior lighting fixtures and bulbs on identified industrial facilities with energy efficient fluorescent fixtures and bulbs. See enclosure (1).

11. REQUIREMENT:

PROJECT: Replace existing 100 to 200 watt incandescent exterior lighting fixtures and bulbs in French Creek, Onslow Beach, Courthouse Bay, Gun Park and Hospital Point's industrial facilities with 9 to 14 watt PL type fluorescent fixtures and bulbs. Fixture frame to be made of marine grade aluminum with a polycarbonate prismatic diffuser to prevent corrosion. The lens to be fully gasketed and U. L. listed for wet locations. These fluorescent, single and double PL-type fixtures to be similar in appearance for all types of mounting and efficiently start-up and operate to 0 degrees farenheit. No damage is to be sustained by the building's structures. Site preparation and post construction clean-up to be included.



1. COMPONENT

DWLOMEIAI

FY 1989 MILITARY CONSTRUCTION PROJECT DATA

2. DATE

20 Oct 86

MARINE CORPS

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

A PROJECT TITLE

UPGRADE EXTERIOR LIGHTING, CUTLYING AREAS

5. PROJECT NUMBER

LE950R

REQUIREMENT: To reduce electric consumption and demand basewide by reducing the wattage required for exterior lighting while retaining the necessary lighting levels. This will help to reduce base energy consumption to 12% below FY-85 baseline by 1995.

CURRENT SITUATION: The existing incandescent fixtures are maintained by the occupant. 100 to 200 watt bulbs are installed in these fixtures. These standing lights are normally used from 2000 to 0600 hours, seven days a week for security purposes.

IMPACT IF NOT PROVIDED: Continued energy waste due to the utilization of low efficiency. Incandescent exterior lighting on industrial facilities. Approximately 2,830 MBTU's of energy will be lost each year.

ENERGY SAVINGS/YEAR

9-Watt fluorescent bulb versus 125-Watt incandescent bulb.

116 Watt/fixtures x 1,825 fixtures = 211,700 Watts.

14-Watt Fluorescent bulb versus 200-Watt incandescent bulb.

186 Watts/fixture x 82 fixtures = 15,252 Watts.

Total = 226,952/1,000 = 226.95 KW.

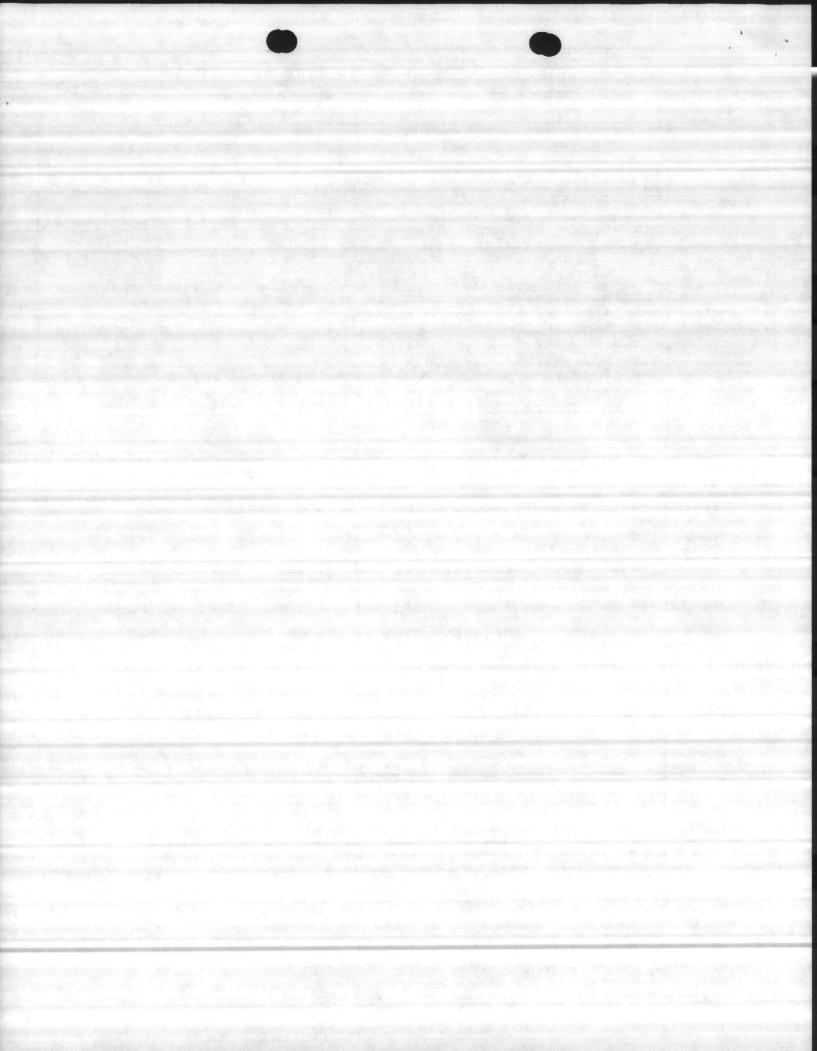
226.95 KW x 10 hours/day x 365 days/yr = 828,367.5 KWH/yr.

828,367.5 $KWH/1,000 \times 3.413 MBTU/MWH = 2,827.23 MBTU/yr$.

NON-ENERGY SAVINGS - ANNUAL RECURRING

(Electrical Demand Savings)

- 1. The yearly savings is based on the "shaving" of the monthly peak demand.
- 2. Exterior lighting is used from 2,000 hours to 0600 hours.



1. COMPONENT

FY 1989 MILITARY CONSTRUCTION PROJECT DATA

2. DATE

20 Oct 86

MARINE CORPS

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

5. PROJECT NUMBER

UPGRADE EXTERIOR LIGHTING, OUTLYING AREAS

LE950R

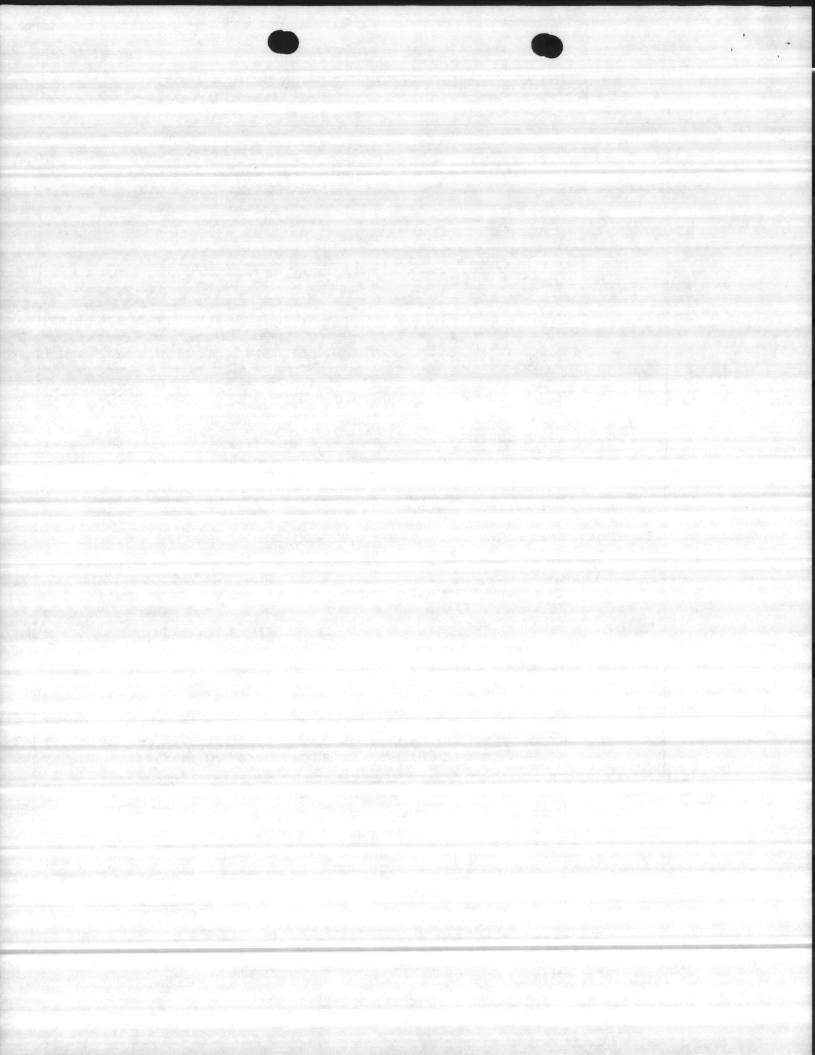
3. WINTER:

- a. Exterior lighting is used during winter peak hours (2000 to 2100 hours).
 - b. Peak demand charges during winter months is \$10.62/KW.

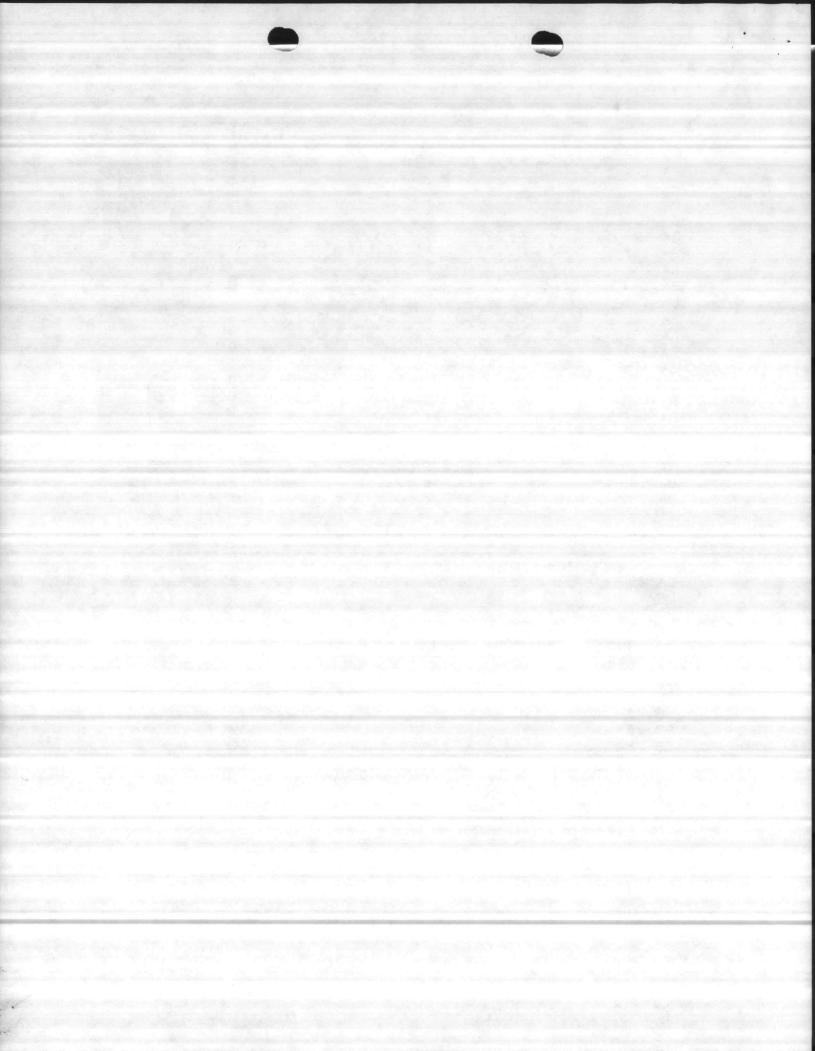
226.95 KW x \$10.62/KW x 6 months = \$14,461.26/Winter.

4. SUMMER:

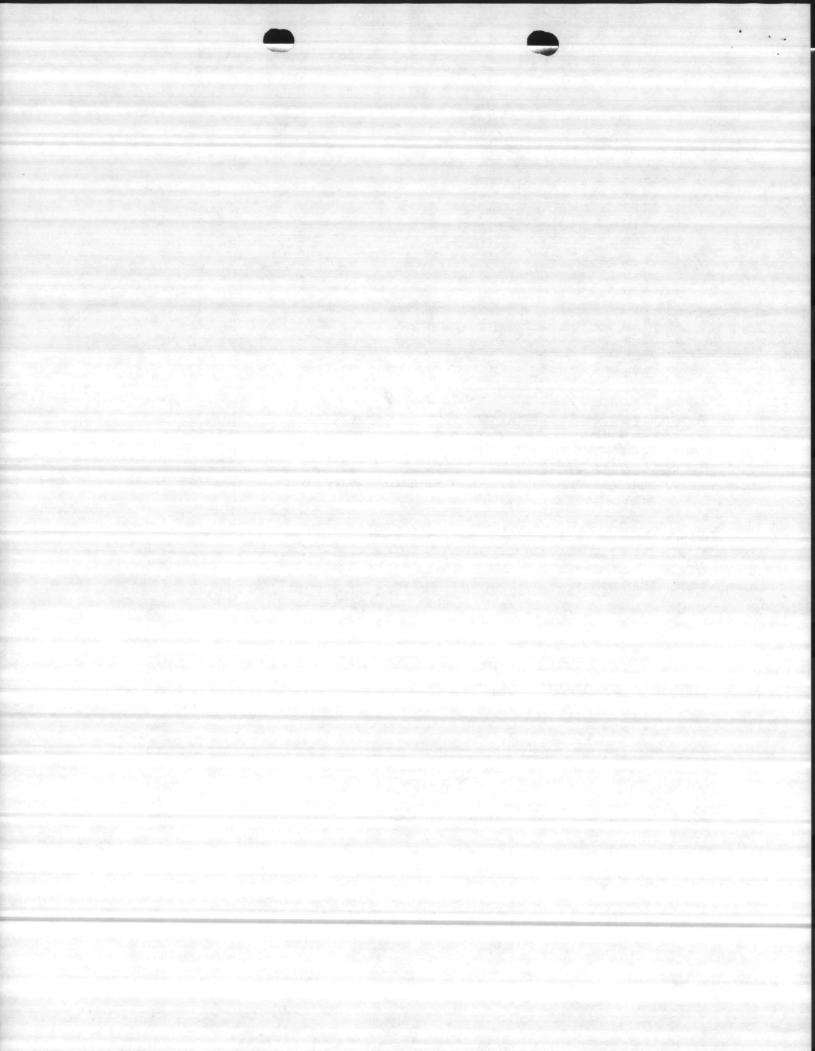
- a. Exterior lighting is used during summer peak hours, (2000 to 2200 hours).
 - b. Peak demand charges during summer months is \$14,81/KW.
 - 226.95 KW x \$14.81/KW x 6 months = \$20,166.78/Summer.
- 5. Total Savings = \$34,628.04/year



BUILDING	WALL FIXTURES	CEILING FIXTURES	
BA 101	2	1	
BA 114	0	41	
BA 115	0	14	
BA 119	3	0	
BA 120	2	0	
SBA 129	0	3	
SBA 142	4	0	
	8	0	
BA 143	17	0	
BA 144	2	0	
BA 146	2	0	
BA 147	2 2 2 2 2 2 2	0	
BA 180	2	0	
BA 181	2	0	
BA 183	2	0	
BA 184	2	0	
BA 188	2	0	
BA 189	2	12	
BA 193	0		
BA 194	0	16	
BA 195	0	12	
BA 198	2	0	
BA 202	2	0	
BA 203	2	0	
BA 204	2 2	0	
BA 205		0	
BA 206	2	0	
BA 207	2	0	
BB 8	4 -	0	
BB 15	4	0	
BB 37	2	1	
BB 49	14	0	
BB 69	1	0	
SBB 94	1	0	
BB 151	2	0	
BB 250	66	0	
BB 255	66	0	
BB 260	78 + 6 Double	0	
BB 265	78 + 6 Double		
BB 270	78 + 6 Double		
CR 123	0	2	
ES 101	1	0	
FC 202		0	
		. 0	
FC 203	12	0	
FC 300	12	0	
FC 302	8	0	
FC 303	11	3 Recessed	
FC 304	16	3 Recessed	
FC 305		3 Recessed	
FC 306	16	3 Recessed	
FC 309	16	3 Recessed	
FC 310	16	3 Recessed	
FC 311	16		
FC 312	8 -	0	
FC 313	3	0	
FC 320	4	0 Encl	(1)
	70 . 0 0	DITCI	, - /



FC 361	1	0
FC 411	76	0
FC 412	76	0
FC 413	76	0
FC 414	76	0
FC 415	76	0
FC 416	76	0
FC 420	0	28
FC 515	72 + 8 Double	0
FC 516		. 0
FC 521	1	0
FC 525	72 + 8 Double	0
FC 526	a de la companya de l	0
FC 530	72 + 8 Double	0
FC 531	1	0
FC 550	72 + 8 Double	0
FC 551	1	0
FC 555	72 + 8 Double	0
FC 556	1	0
FC 560	72 + 8 Double	0
FC 561	1	0
FC 565	72 + 8 Double	0
FC 566	1	0
GP 11	2	0
GP 14	1	0
GP 20	4	0
GP 21	2 -	0
H 14	11	0
H 16	5	0
H 29	2	0
H 30	0	2
Picnic Pavilion	0	2 3
Picnic Lavatory	2	0



TAM	ERIAL	&	LABOR	COST	EST	MATE
			DE			1

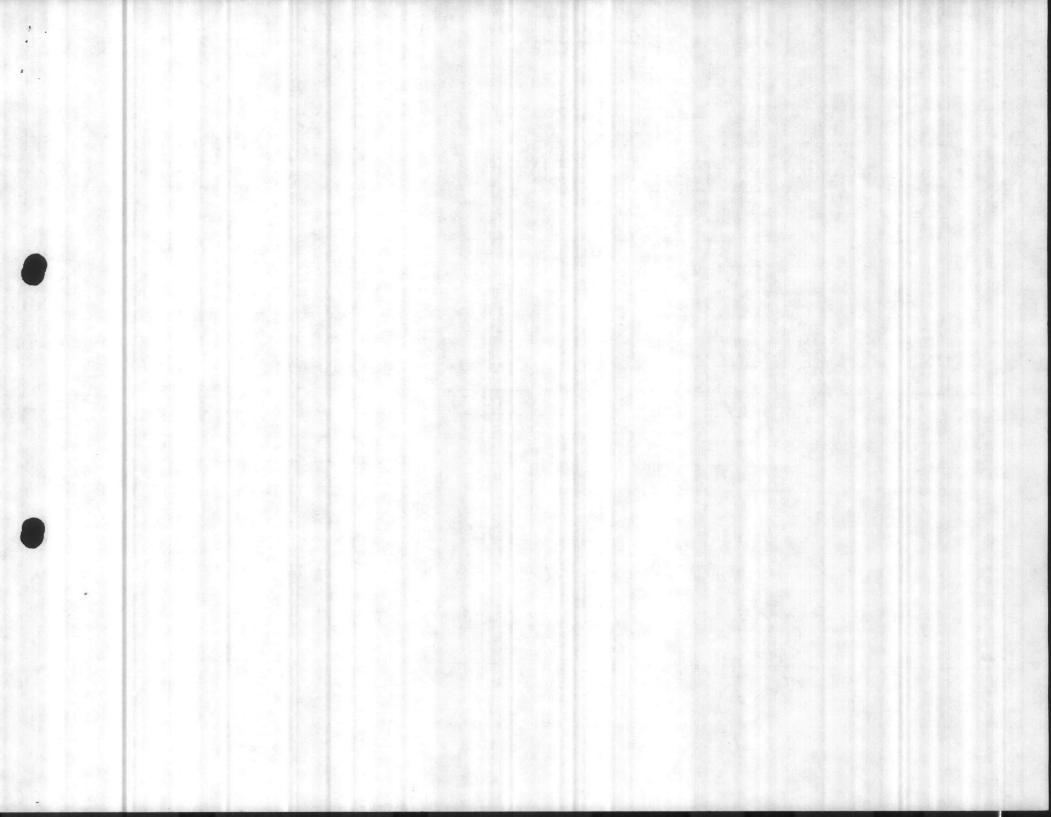
LANTDIV NORVA 4-11012/5 (REV. 12/80) ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND

SHEET	01	
Const. Contr. No.	LE950R	
20 Oct	86	

FUNDS AVAI.

NORFOLK, VIRGINIA

FUNDS AVAI FY-89		LK, VIF					AIL	
PROJECTUPARAde Exterior Lighting, Outlying A.	reas	LOCAT	ION CA	MP LEJI	EUNE,	NEC	The second second second second	RELIM. M FINAL
ITEMS	QUANTITY	UNIT	MATER	TOTAL	LABO	OR COST TOTAL	TOTAL COST	REMARKS
9-watt, Wall Mount, Pl-type	1,472	EA	21.00	35,112	4.50	7,524	42,636	
Fluorescent Fixture with Bulb								
9-watt Cailing Mount PL type	153	EA	21.00	3,213	4.50	688.50	3,901.50	
P-watt, Cailing Mount, PL type Fluorescent Fixture with Bulb	-							
7-watt, PL: Type Fluorescent	82	EA	33.00	2,706	4.50	369.00	3,075	
Fixture with Bulb								
T	1,907	1		41,031		8 581 50	49,612.50	
Total	1,101	17.00		11,021		0201.50	7.441.88	1
Overhead (15%)				1		154467	1.544.67	
Ins, Taxes, S.S. (18% of Labor)	46 -			1.846.40		7,077.0	1,846.40	
Sales Tax (4.5% of Material)				1,076.70			100,445.45	
Subtotal							6,044.54	
Profit (10%)		-			10.		6,077.57	
Subtotal								
Bond (1%)					1		664.90	
Total Contract Cost							67,154.89	
Contingencias (10%)	22.00					At a	6.715.49	
Subtatal							73,870.53	
Design (6%)							4,432.22	
Total Funds Requested							78,302.60	
1.								
1								
		136						
					134			



LIFE CYCLE COST ANALYSIS SUMM EMERGY CONSERVATION INVESTMENT PROGRAM (ECIP)

LOCATION: CAMP LETEURE, NC

REGION NO: 4 LE950R

PROJECT TITLE: UPGRADE EXTERIOR LIGHTING, OUTLYING AREAS FISCAL YEAR 89

DISCRETE PORTION NAME:

ANALYSIS DATE: 10/86

ECONOMIC LIFE 25 YEARS

1	THI	ESTMENT		
		CONSTRUCTION COST	\$	73,870.38
	В	SIOH	5	enach dat i hand
		DESIGN COST	5	4,432.22
	0	ENERGY CREDIT CALC (1A+1B+1C)X.9	5	70,472.34
		SALVAGE VALUE OF EXISTING EQUIPMENT	-\$	and the second
		TOTAL INVESTMENT (1D-1E)	\$	70,472.34

2. ENERGY SAVINGS (+)/COST (-) AMALYSIS DATE ANNUAL SAVINGS, UNIT COST & DISCOUNTED SAVINGS

FUEL	COST \$/MBTU(1)	SAVINGS MBTU/YR(2)	ANNUAL 5 SAVINGS(3)	DISCOUNT FACTOR(4)	DISCOUNTED SAVING(5)	
A. ELECT B. DIST C. RESID D. NG E. CO/DIST	\$ 14.75 \$ \$ \$	2,827	\$ 41,698.25 \$ \$ \$ \$	15.23	\$635,064.35 \$ \$ \$ \$	
F. TOTAL		2,827	\$ 41,698.25		>	\$635,064.35

3. NON EMERGY SAVING (+)/COST (-)
A. ANNUAL RECURRING (+/-)
(1) DISCOUNT FACTOR (TABLE A)
11.65 \$ 34,628.04

\$403,416.67 (2) DISCOUNTED SAVING/COST (3A X 3AL)

B. NON RECURRING SAVING (+)/COST (-) SAVINGS(+) YEAR OF DISCOUNT DISCOUNTED SAV-ITEM COST (-)(1) OCCURRENCE(2) FACTOR(3) INGS (+) COST (-)(4) 1. 2.

4. TOTAL \$ -0-

C. TOTAL NON ENERGY DISCOUNTED SAVINGS (+)/COST(-) (3A2+3B2.4) \$403,416.67

- D. PROJECT NOW ENERGY QUALIFICATION TEST
 - (1) 25% MAX NON ENERGY CAL (2F5 X .33) 1. IF 3D1 IS = OR >3C GO TO ITEM 4

\$209,571.24

- 2. IF 3D1 IS < 3C CALC SIR = (2F5+3D1)/1F=12.0
- 3. IF 3D12 IS => 1 GO TO ITEM 4
- 4. IF 3D12 is < 1 PROJECT DOES NOT QUALIFY
- 4. FIRST YEAR DOLLAR SAVINGS 2F3+3A+(3B12/fEARS ECONOMIC LIFE)

5. TOTAL NET DISCOUNTED SAVINGS (2F5+3C) 6. DISCOUNTED SAVINGS RATIO (IF < 1 PROJECT DOES NOT QUALIFY) (SIR)=(5/1F)=

7. E/C RATION (2F2/(1F/1000)= 40.12 :BTU/K\$

ENCL (3)

